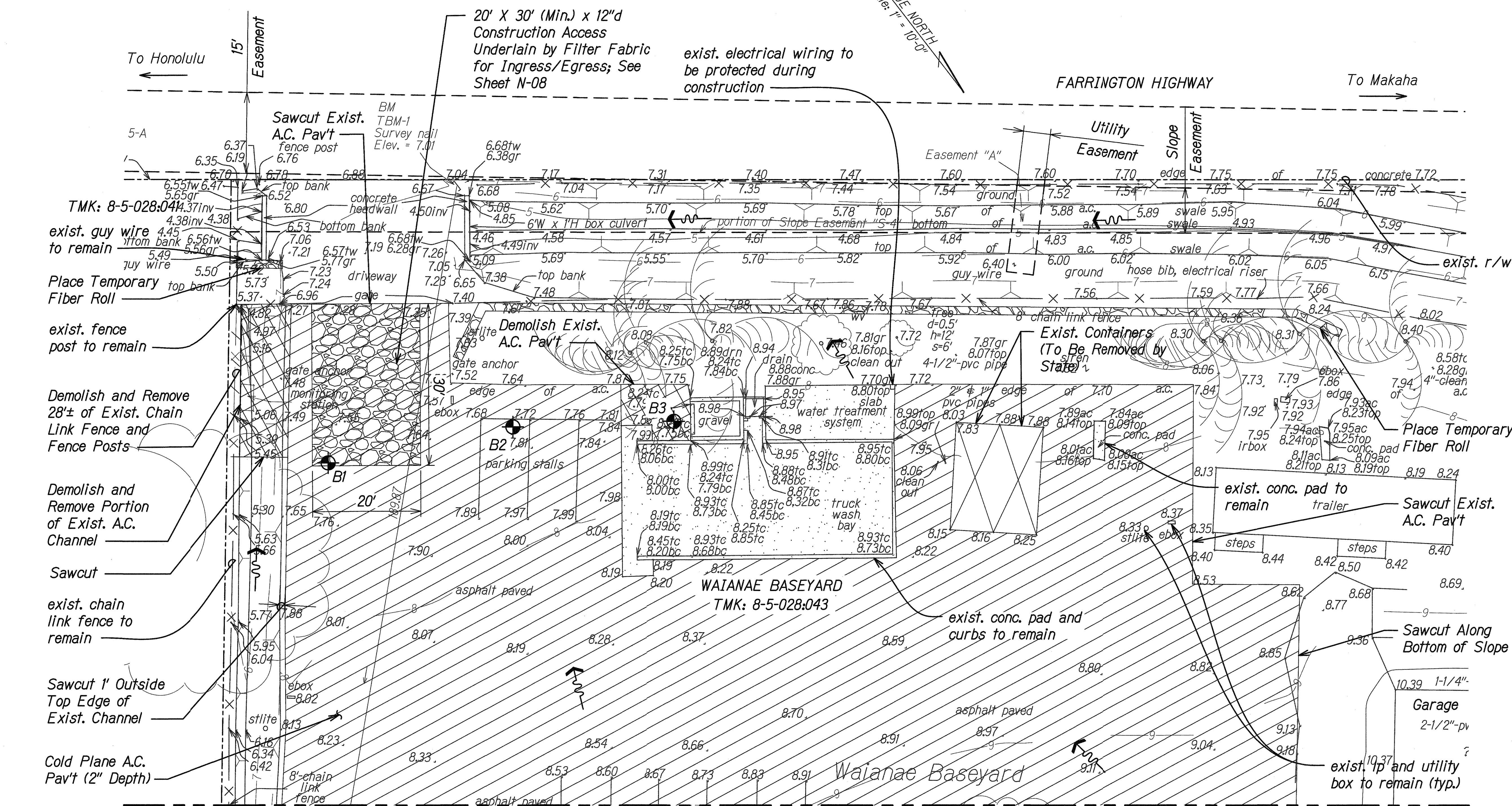
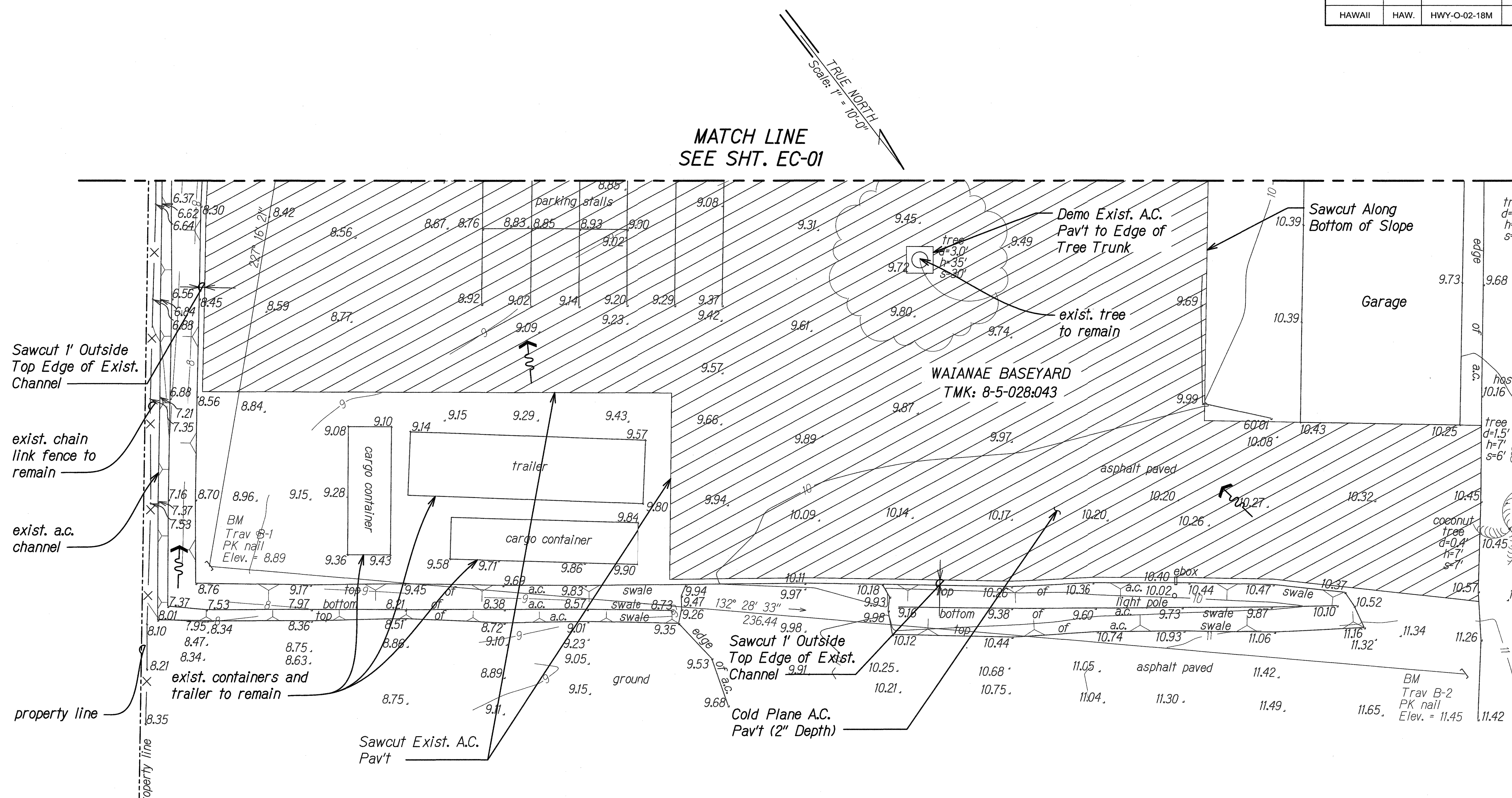


| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 11        | 33           |





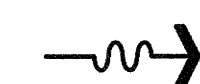
| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 12        | 33           |



# **TEMPORARY BMP AND DEMOLITION PLAN** **WAIANAE BASEYARD**

Scale: 1" = 10'-0"

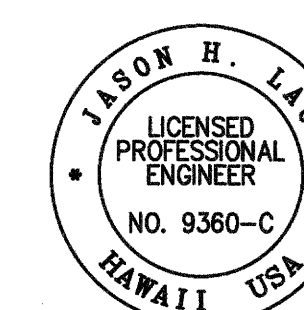
## **LEGEND**



Direction of Flow



Cold Plane Existing A.C.  
Pavement (2" Depth)



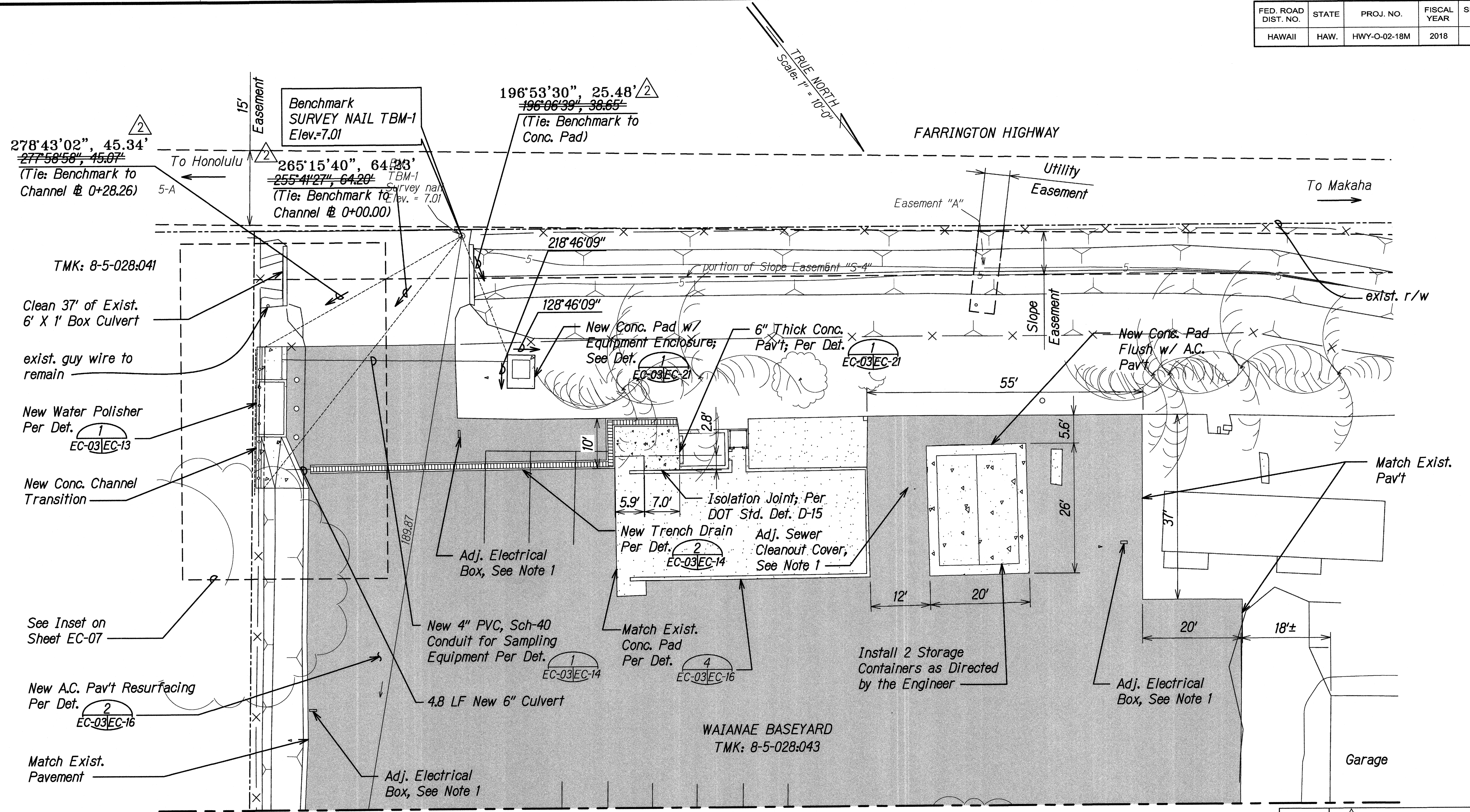
4/30/18  
 This work was prepared by  
 me or under my supervision.

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**TEMPORARY BMP AND DEMO PLAN**  
**WAIANAE BASEYARD**  
 STORM WATER BEST MANAGEMENT PRACTICES  
 IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU  
 Project No. HWY-O-02-18M  
 Scale: 1" = 10'-0" Date: March 2018

SHEET No. EC-02 OF 23 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 13        | 33           |



### LEGEND

A.C. Pavement Resurfacing (2" Thickness); State Mix V

### Notes:

1. Adjust all utility manhole frame & covers, valve box frame and covers, etc. to new finish grade elevation.

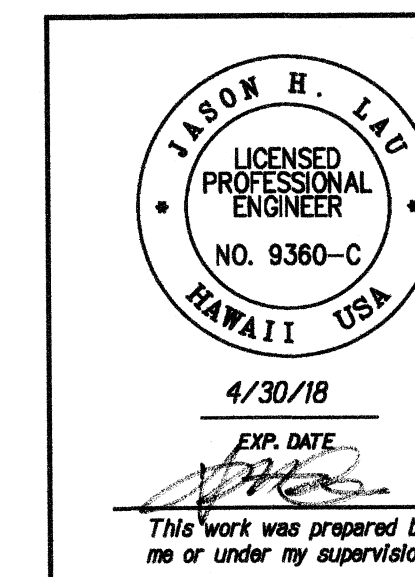
### LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

### GENERAL PERMANENT BMP PLAN WAIANAE BASEYARD

Scale: 1" = 10'-0"

|        |   |                      |
|--------|---|----------------------|
| 6/6/19 | 2 | RFI 4 - REVISED TIES |
| DATE   |   | REVISION             |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

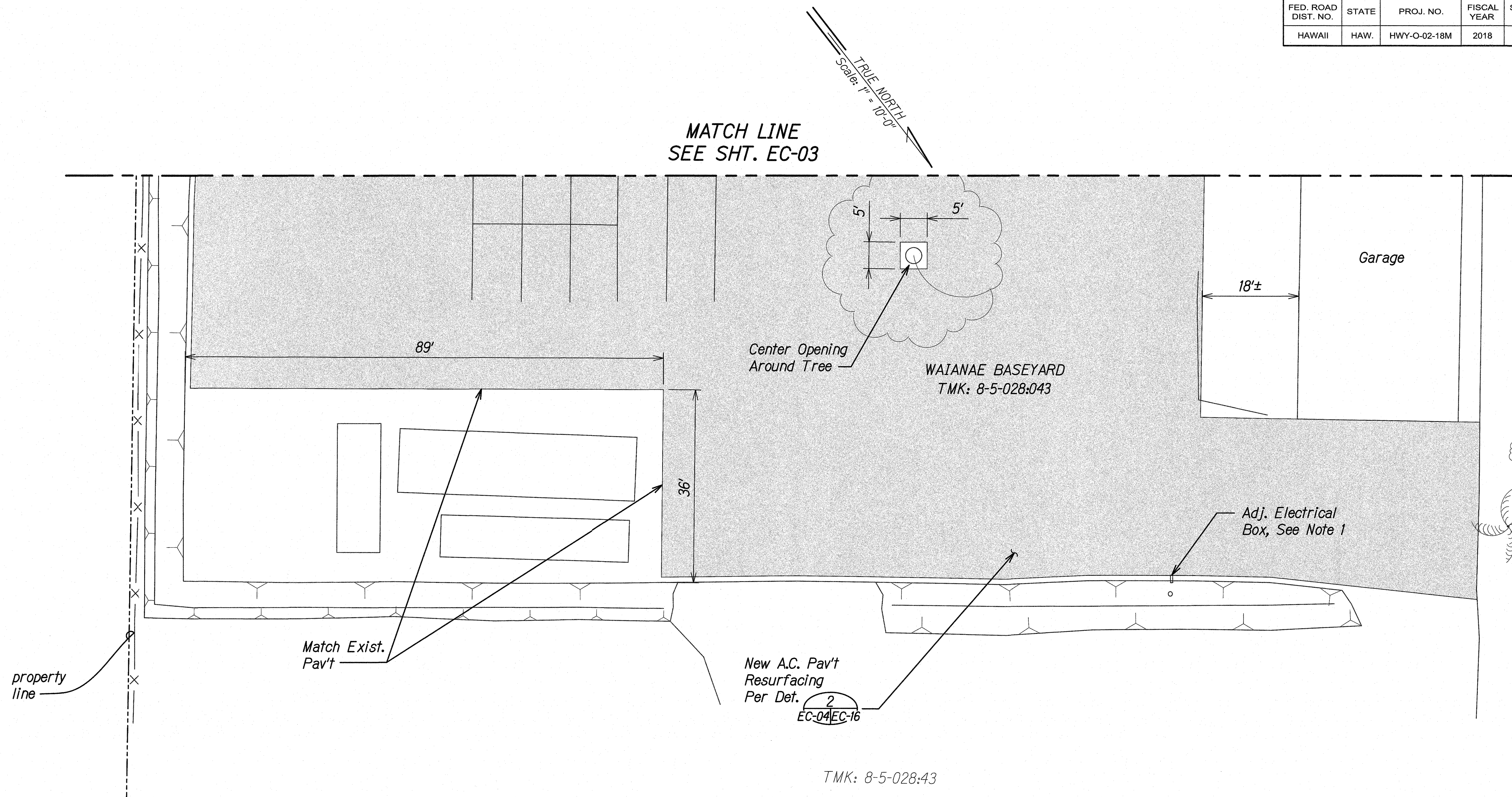
**GENERAL PERMANENT BMP PLAN**  
**WAIANAE BASEYARD**  
STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU  
Project No. HWY-O-02-18M  
Scale: 1" = 10'-0" Date: March 2018

SHEET No. EC-03 OF 23 SHEETS

"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 14        | 33           |



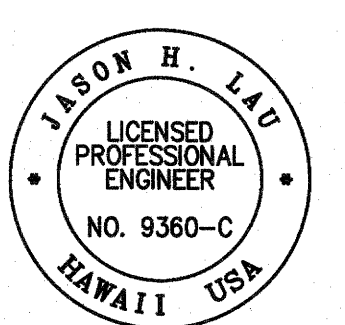
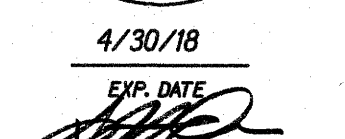
### LEGEND

 A.C. Pavement Resurfacing (2" Thickness); State Mix V

### Notes:

1. Adjust all utility manhole frame & covers, valve box frame and covers, etc. to new finish grade elevation.

### GENERAL PERMANENT BMP PLAN WAIANAE BASEYARD Scale: 1" = 10'-0"

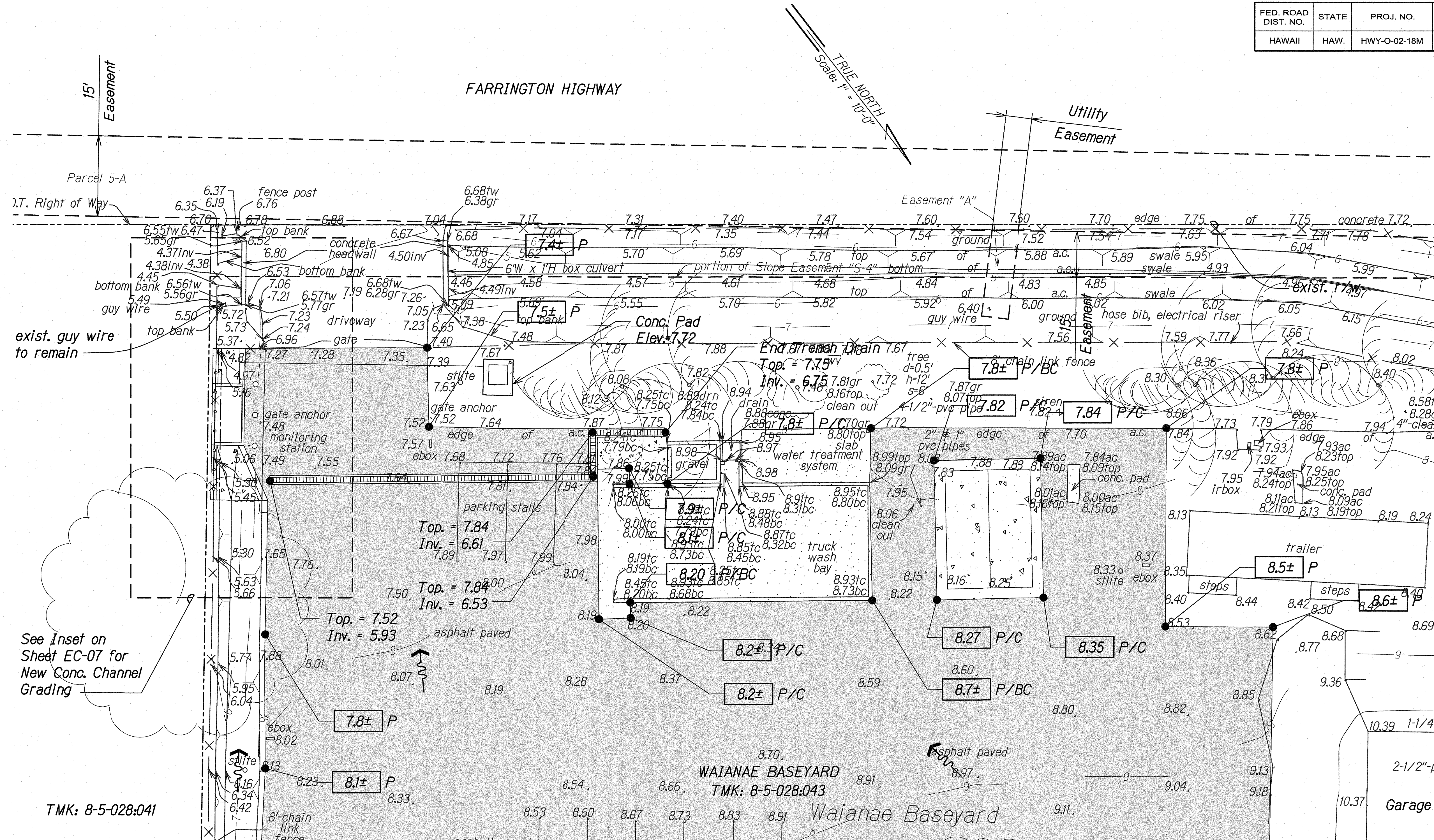
|                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>4/30/18<br>EXP. DATE<br><br>This work was prepared by me or under my supervision. | STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION<br><b>GENERAL PERMANENT BMP PLAN</b><br><b>WAIANAE BASEYARD</b><br>STORM WATER BEST MANAGEMENT PRACTICES<br>IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU<br>Project No. HWY-O-02-18M<br>Scale: 1" = 10'-0" Date: March 2018 |
|                                                                                                                                                                                                                                                                 | SHEET No. EC-04 OF 23 SHEETS                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                 | 14                                                                                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                   |

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DESIGNED BY   |      |
| TRACED BY     |      |
| NOTED BY      |      |
| QUANTITIES BY |      |
| CHECKED BY    |      |
| DATE          |      |

WAIANAE - TEMP. ECP-LONG 3/19/2018 2:02:25 PM



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 15        | 33           |



# LEGEND

- 1.67 BC Bottom of Curb Elevation
- 1.67 C Concrete Elevation
- 1.67 P A.C. Pavement Elevation
- Flow Direction

MATCH LINE  
SEE SHT. EC-06

## GRADING PLAN WAIANAE BASEYARD

Scale: 1" = 10'-0"

4/30/18

This work was prepared by me or under my supervision.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GRADING PLAN**  
**WAIANAE BASEYARD**

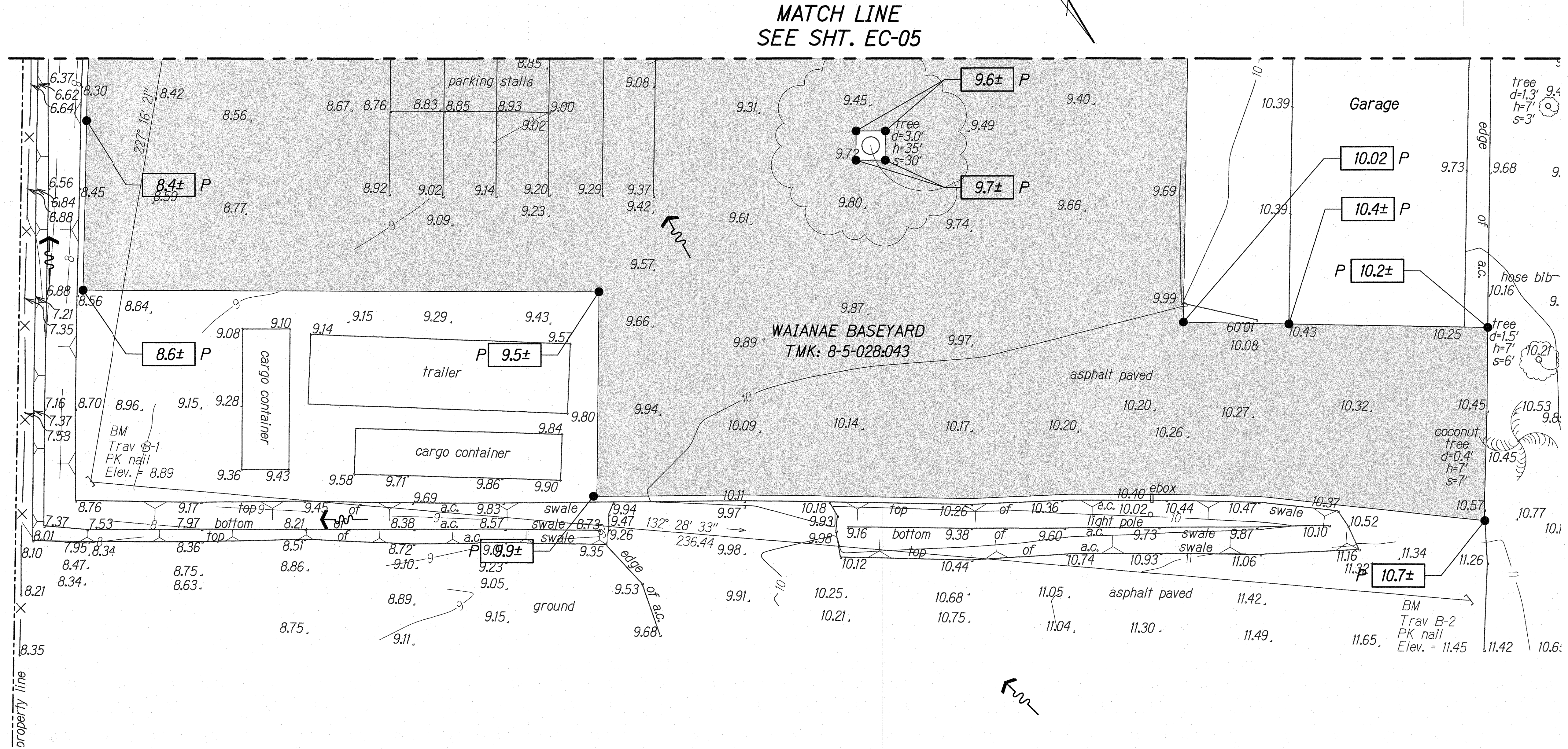
STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

Project No. HWY-O-02-18M  
Scale: 1" = 10'-0" Date: March 2018

SHEET No. EC-05 OF 23 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 16        | 33           |



|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| TRACED BY     |                   |      |
| NOTE BOOK     |                   |      |
| QUANTITIES BY |                   |      |
| CHECKED BY    |                   |      |
| No.           |                   |      |

WAIANAE - PENDING 3/15/2018 14:07 AM

# LEGEND

- 1.67 P A.C. Pavement Elevation
- Flow Direction

## GRADING PLAN WAIANAE BASEYARD Scale: 1" = 10'-0"

4/30/18

This work was prepared by me or under my supervision.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

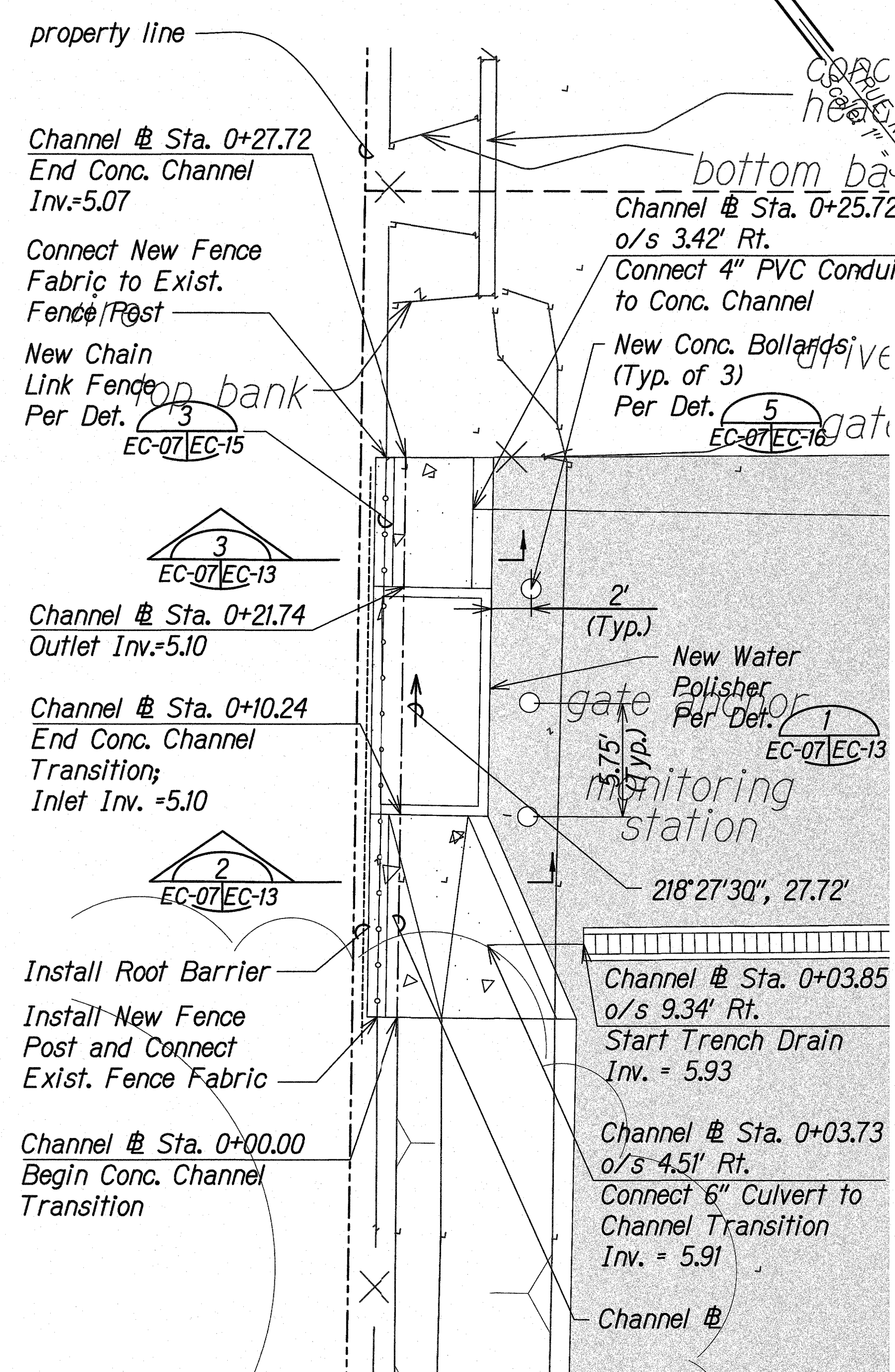
**GRADING PLAN  
WAIANAE BASEYARD**

STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

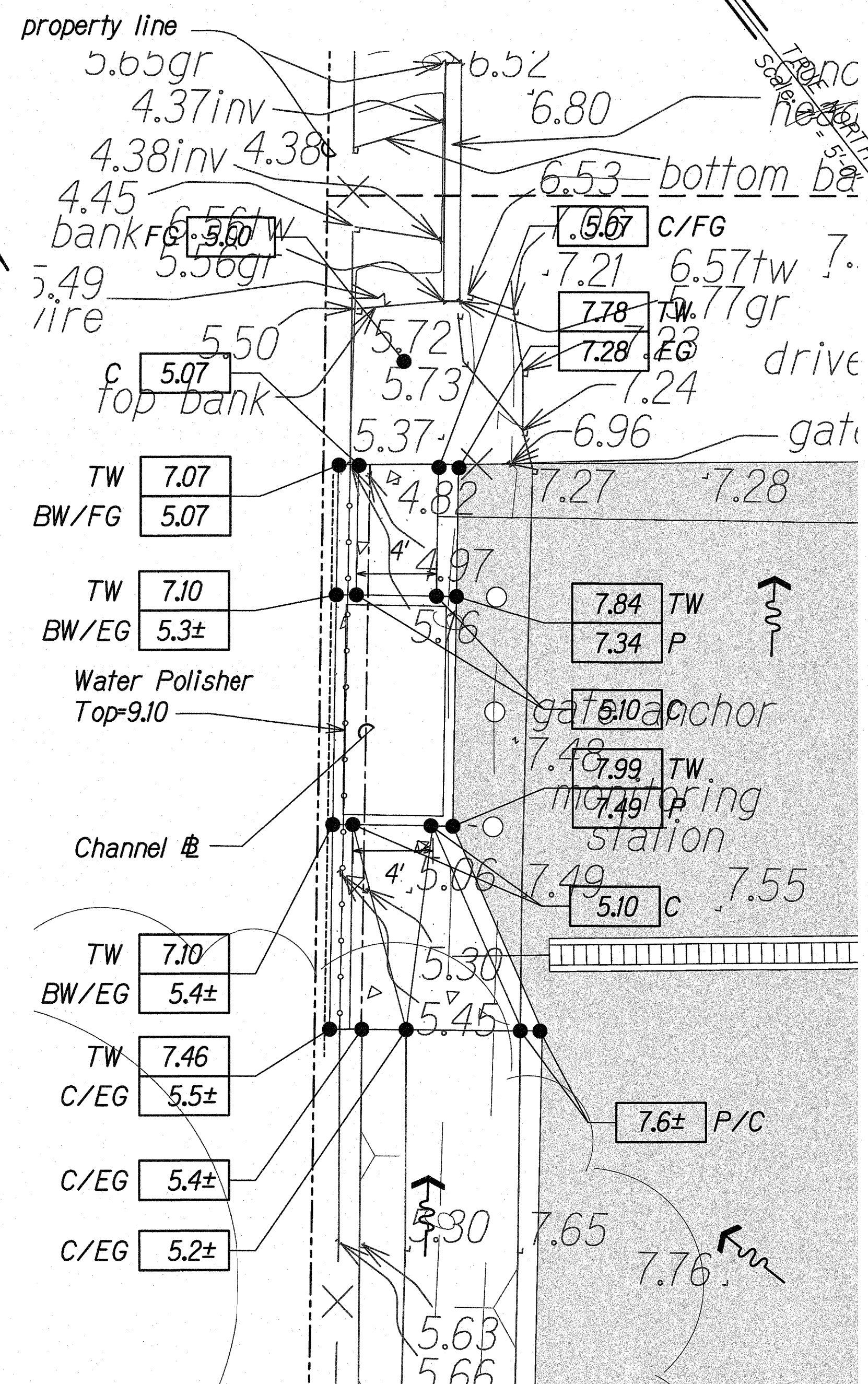
Project No. HWY-O-02-18M  
Scale: 1" = 10'-0" Date: March 2018



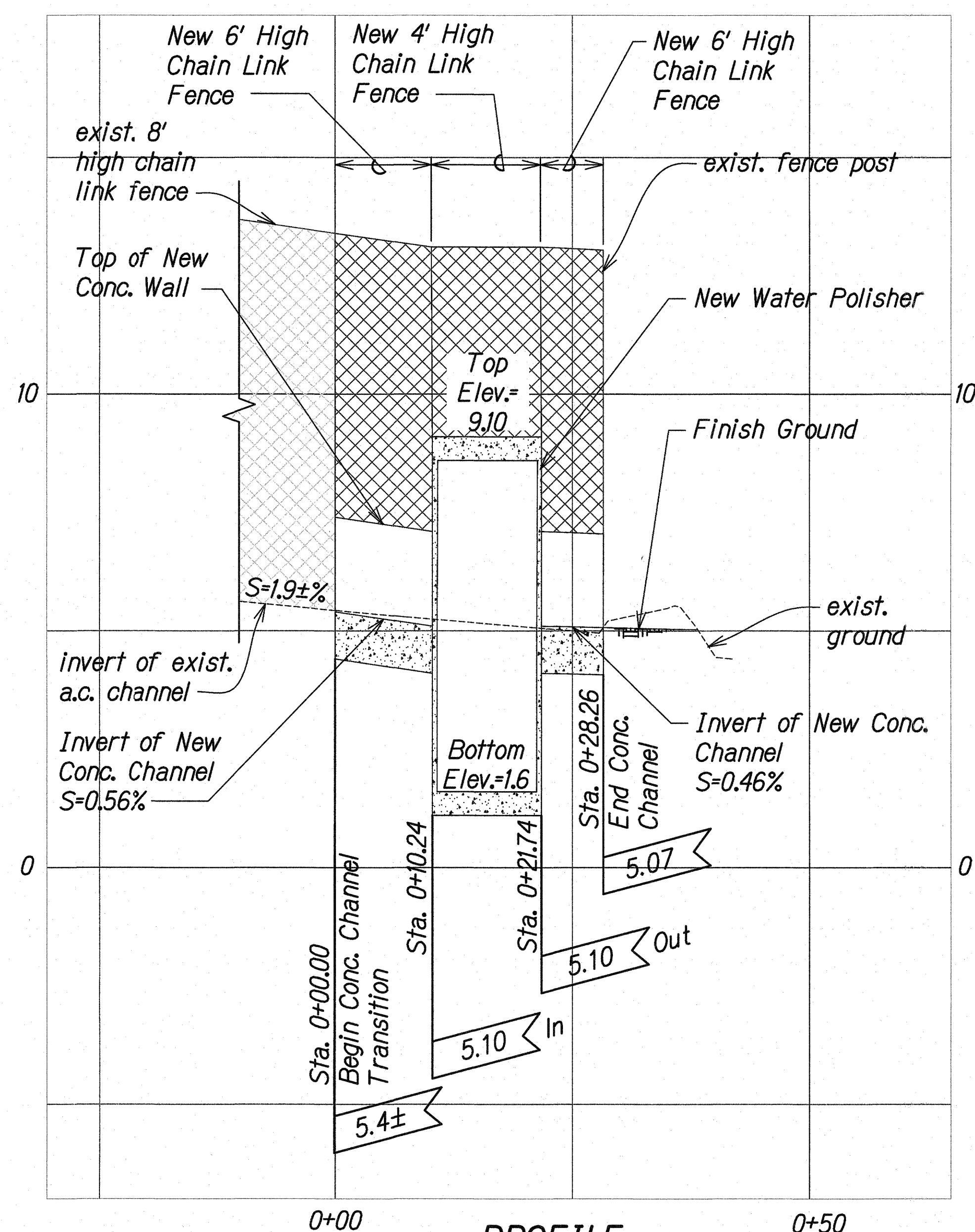
| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 17        | 33           |



**PERMANENT BMP PLAN INSET  
WAIANAE BASEYARD**  
Scale: 1" = 5'-0"



**GRADING PLAN INSET  
WAIANAE BASEYARD**  
Scale: 1" = 5'-0"



**PROFILE  
WAIANAE BASEYARD**  
Scale: Horiz. 1" = 10'-0"  
Vert. 1" = 2'-0"

**LEGEND**

|      |    |                           |      |   |                         |
|------|----|---------------------------|------|---|-------------------------|
| 1.56 | eg | Existing Ground Elevation | 1.67 | C | Concrete Elevation      |
| 1.67 | FG | Finish Ground Elevation   | 1.67 | P | A.C. Pavement Elevation |
| 1.67 | TW | Top of Wall Elevation     |      |   | Flow Direction          |
| 1.67 | BW | Bottom of Wall Elevation  |      |   |                         |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PERM. BMP & GRADING PLAN INSETS & PROFILE  
WAIANAE BASEYARD**

STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

Project No. HWY-O-02-18M  
Scale: As Shown Date: March 2018

4/30/18

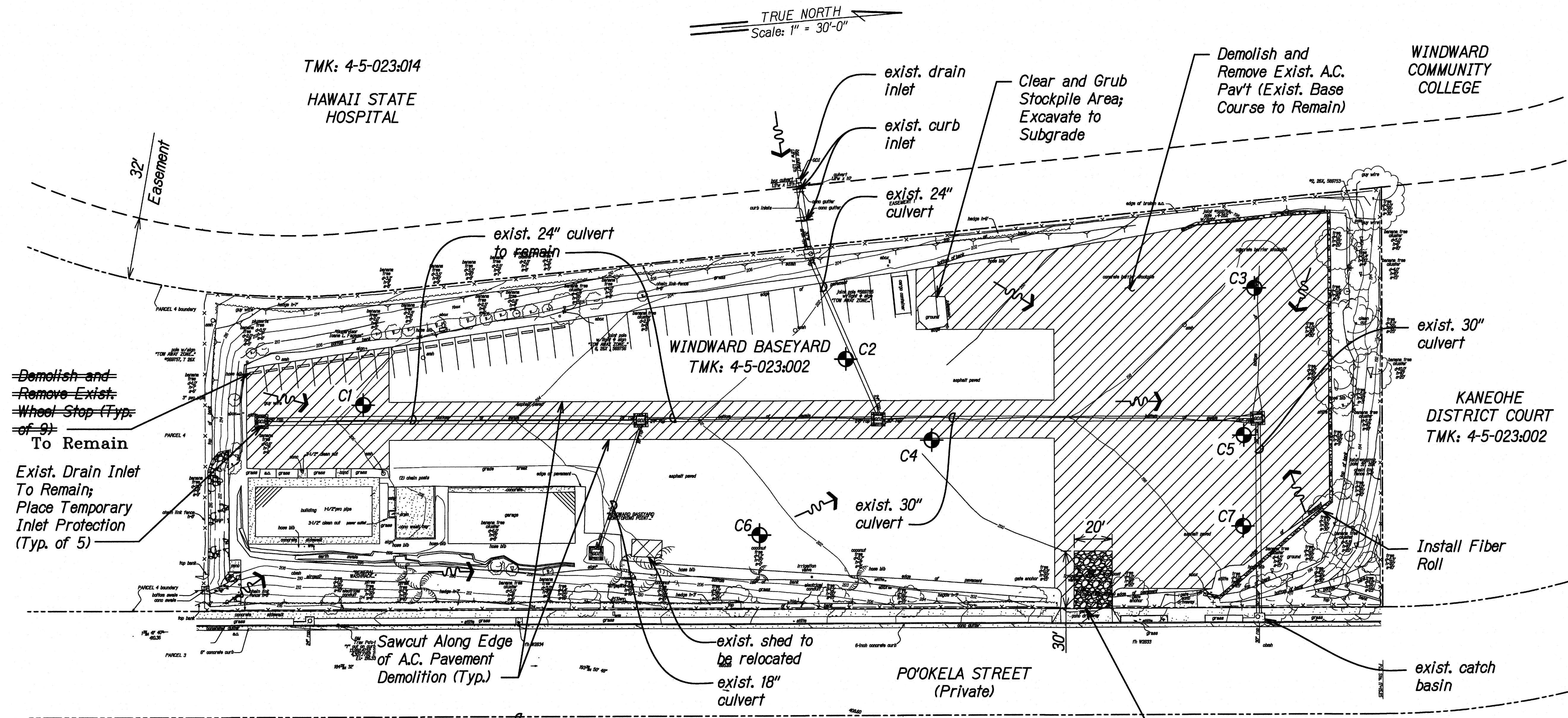
EXP. DATE

This work was prepared by me or under my supervision.

SHEET No. EC-07 OF 23 SHEETS



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 18        | 33           |



**NOTES:**  
 1. For boring log data, see Sheet EC-22 & EC-23

**LEGEND**

A.C. Pavement Demolition, Approx. 2" to 3.5" Thick (Exist. Base Course to Remain)

Direction of Flow

Approx. Boring Location and ID Number

**TEMPORARY BMP AND DEMOLITION PLAN**  
**WINDWARD BASEYARD**  
 Scale: 1" = 30'-0"

**LEGEND FOR AS-BUILT POSTINGS**

Squiggly line for as-built deletion

Double line for as-built deletion

Roadway Text for as-built posting

20' X 30' (Min.) x 12"d Construction Access Underlain by Filter Fabric for Ingress/Egress; See Sheet N-08

ORIGINAL PLAN  
 DATE  
 SURVEY PLOTTED BY  
 DESIGNED BY  
 NOTE BOOK  
 QUANTITIES BY  
 CHECKED BY

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**TEMPORARY BMP AND DEMO PLAN**  
**WINDWARD BASEYARD**

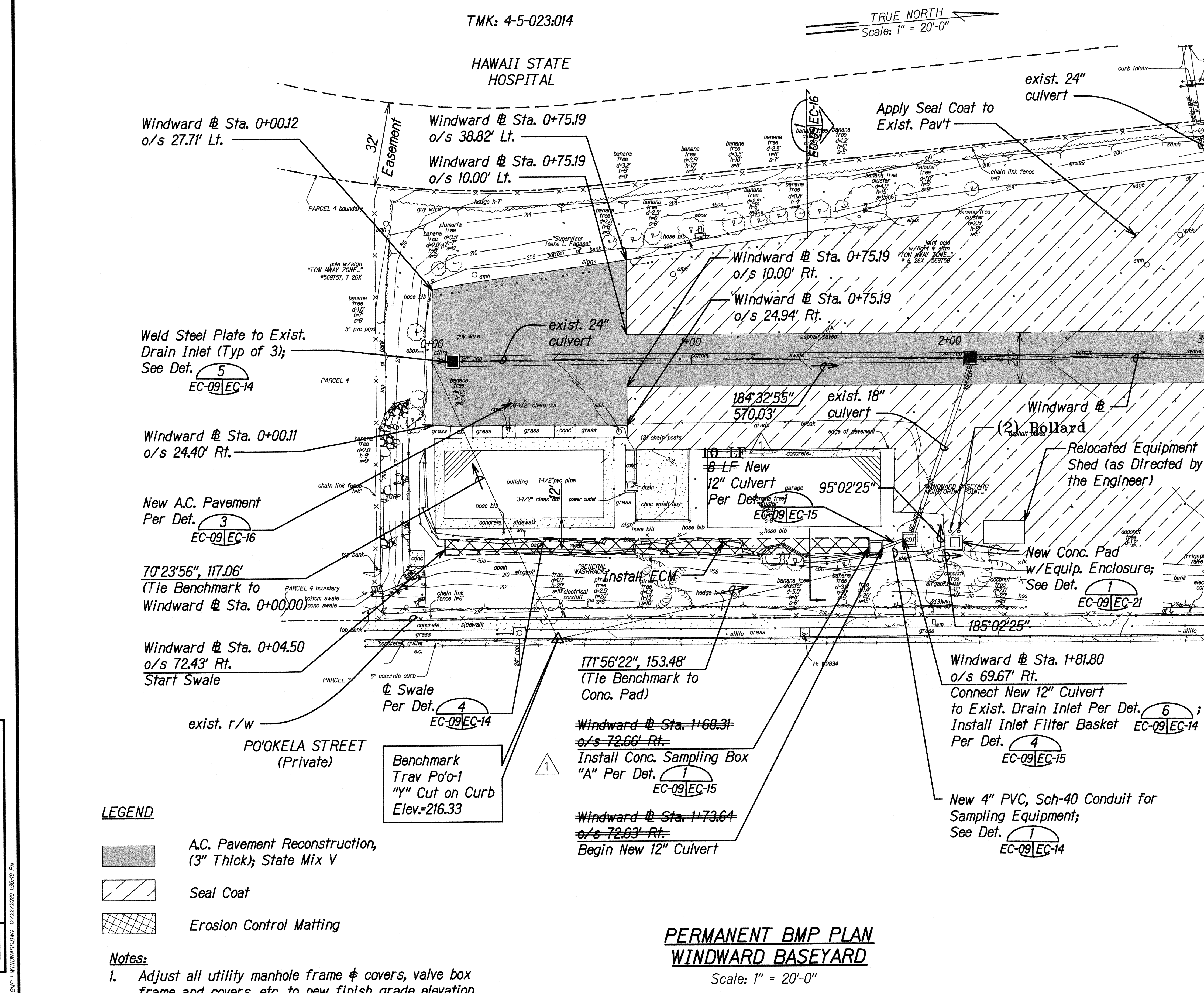
STORM WATER BEST MANAGEMENT PRACTICES  
 IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU  
 Project No. HWY-O-02-18M  
 Scale: 1" = 30'-0" Date: March 2018

SHEET No. EC-08 OF 23 SHEETS

"AS-BUILT"



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 19        | 33           |



MATCH LINE  
@ STA. 3+00 SEE SHT. EC-10

#### LEGEND

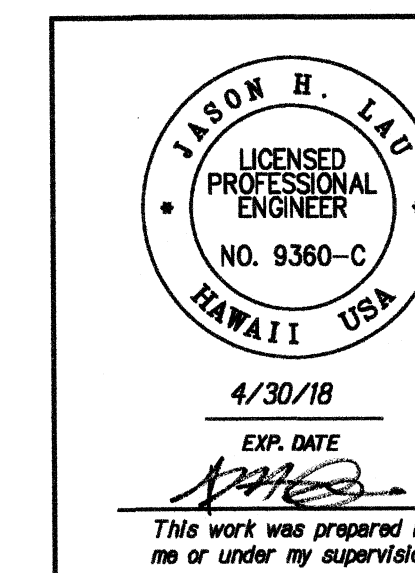
- A.C. Pavement Reconstruction, (3" Thick); State Mix V
- Seal Coat
- Erosion Control Matting

#### Notes:

- Adjust all utility manhole frame & covers, valve box frame and covers, etc. to new finish grade elevation.

| LEGEND FOR AS-BUILT POSTINGS |                                     |
|------------------------------|-------------------------------------|
|                              | Squiggly line for as-built deletion |
|                              | Double line for as-built deletion   |
| Roadway                      | Text for as-built posting           |

|          |          |
|----------|----------|
| 10/19/18 | PCD - 1  |
| DATE     | REVISION |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PERMANENT BMP PLAN**  
**WINDWARD BASEYARD**

STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

Project No. HWY-O-02-18M  
Scale: 1" = 20'-0" Date: March 2018

SHEET No. EC-09 OF 23 SHEETS

#### PERMANENT BMP PLAN WINDWARD BASEYARD

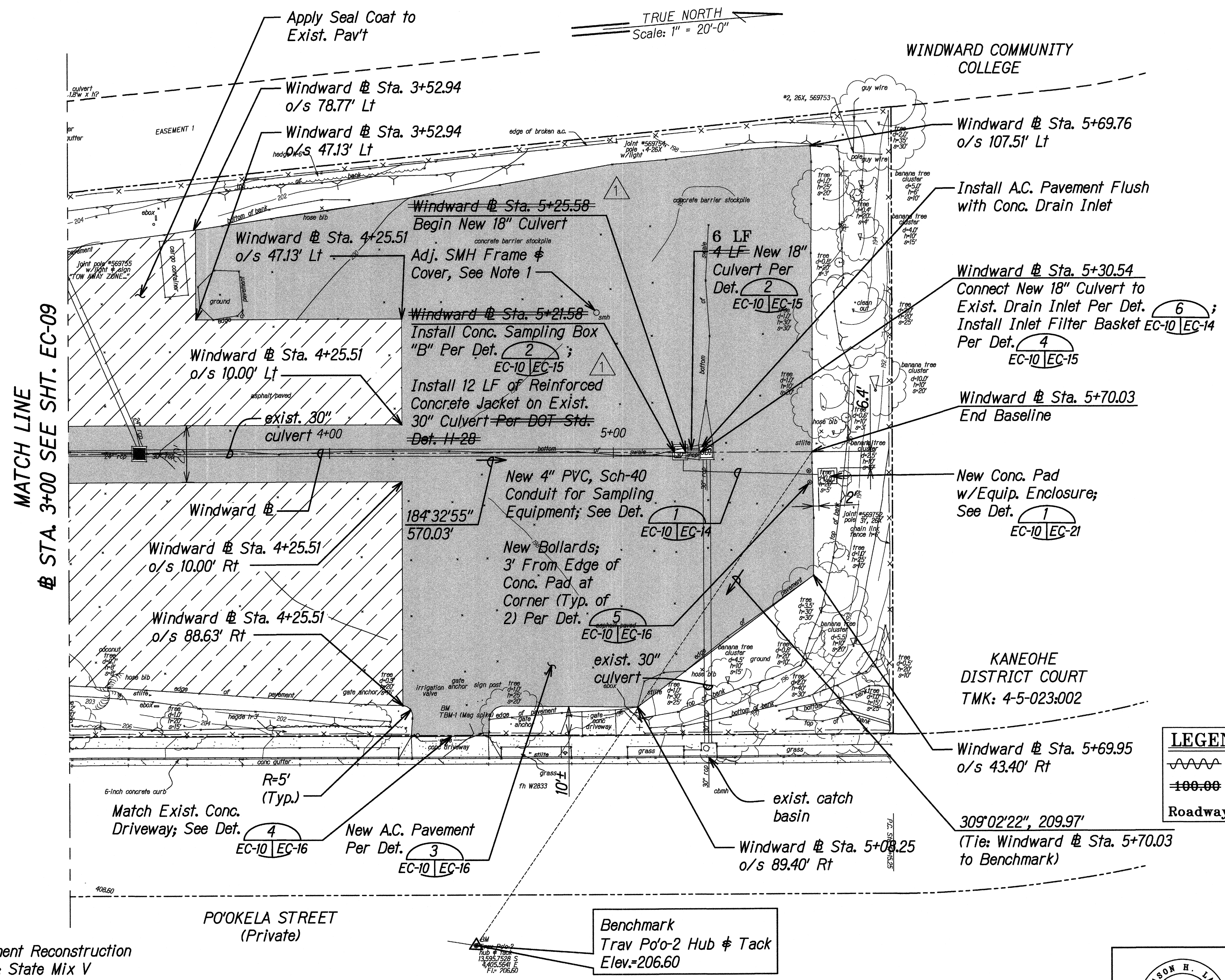
Scale: 1" = 20'-0"

"AS-BUILT"

C.O. 19



| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 20        | 33           |



**LEGEND**

- A.C. Pavement Reconstruction (3" Thick); State Mix V
- Seal Coat

**Notes:**

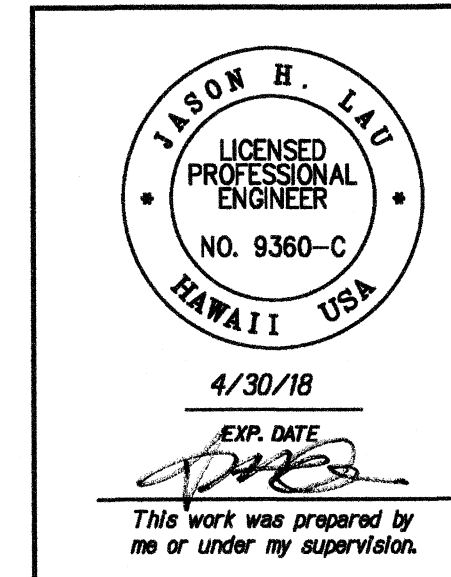
- Adjust all utility manhole frame & covers, valve box frame and covers, etc. to new finish grade elevation.

| LEGEND FOR AS-BUILT POSTINGS |                                     |
|------------------------------|-------------------------------------|
|                              | Squiggly line for as-built deletion |
|                              | Double line for as-built deletion   |
| Roadway                      | Text for as-built posting           |

**PERMANENT BMP PLAN  
WINDWARD BASEYARD**

Scale: 1" = 20'-0"

|          |          |
|----------|----------|
| 10/19/18 | PCD - 1  |
| DATE     | REVISION |



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PERMANENT BMP PLAN  
WINDWARD BASEYARD**

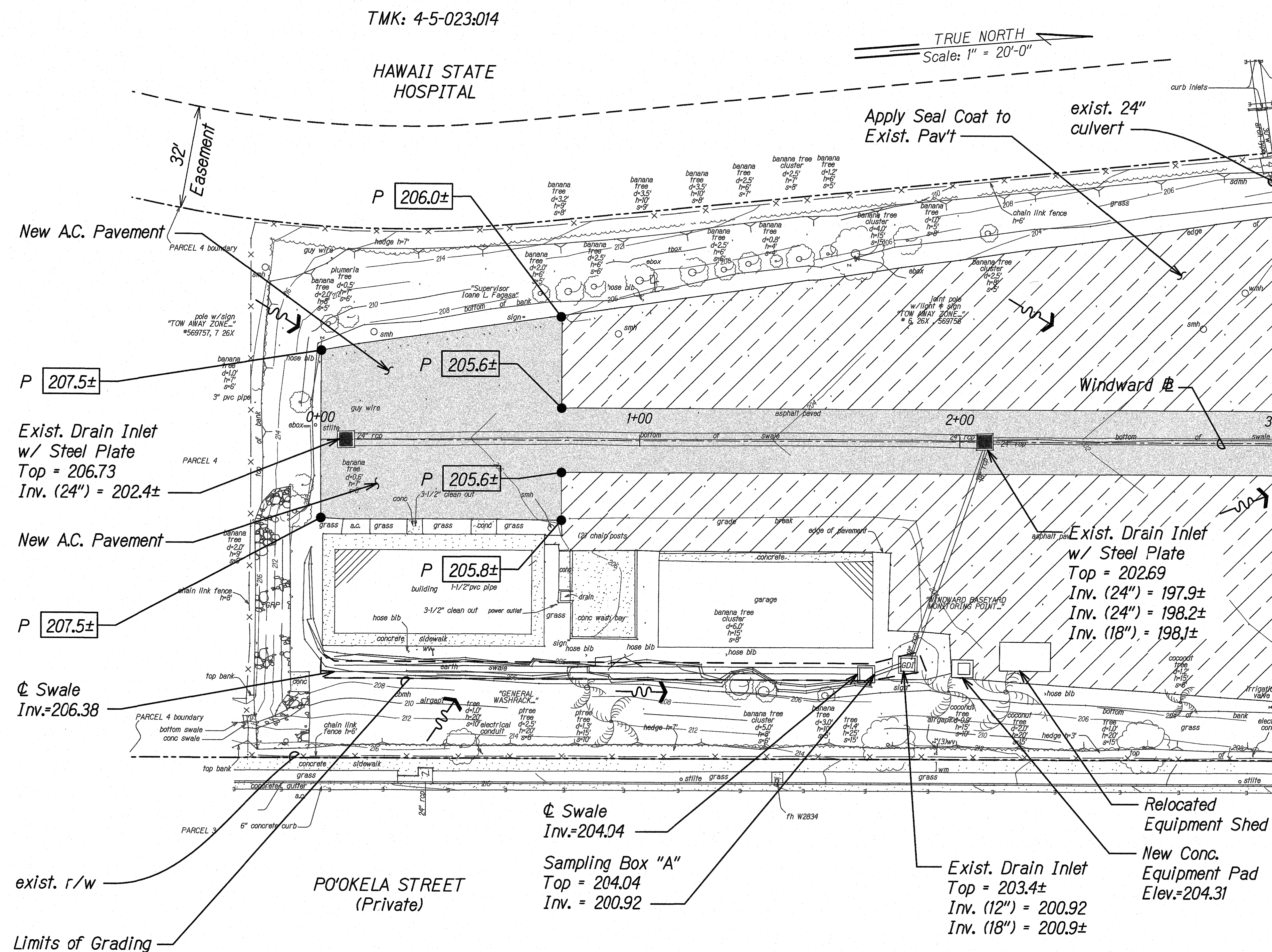
STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU  
Project No. HWY-O-02-18M  
Scale: 1" = 20'-0" Date: March 2018

SHEET No. EC-10 OF 23 SHEETS

"AS-BUILT"



| FED. ROAD<br>DIST. NO. | STATE | PROJ. NO.    | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|--------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | HWY-O-02-18M | 2018           | 21           | 33              |



**MATCH LINE**  
**STA. 3+00 SEE SHT. EC-12**

GRADING PLAN  
WINDWARD BASEYARD

Scale: 1" = 20'-0"

*LEGEND*

|      |   |                         |
|------|---|-------------------------|
| 1.67 | P | A.C. Pavement Elevation |
|------|---|-------------------------|

### Limits of Grading

*Flow Direction*

4/30/18

EXP. DATE \_\_\_\_\_  
 \_\_\_\_\_  
 This work was prepared  
 me or under my supervision

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PERMANENT BMP PLAN  
WINDWARD BASEYARD

## STORM WATER BEST MANAGEMENT PRACTICES

### IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

Project No. HWY-0-02-18M

Scale: 1" = 20'-0" Date: March 2018

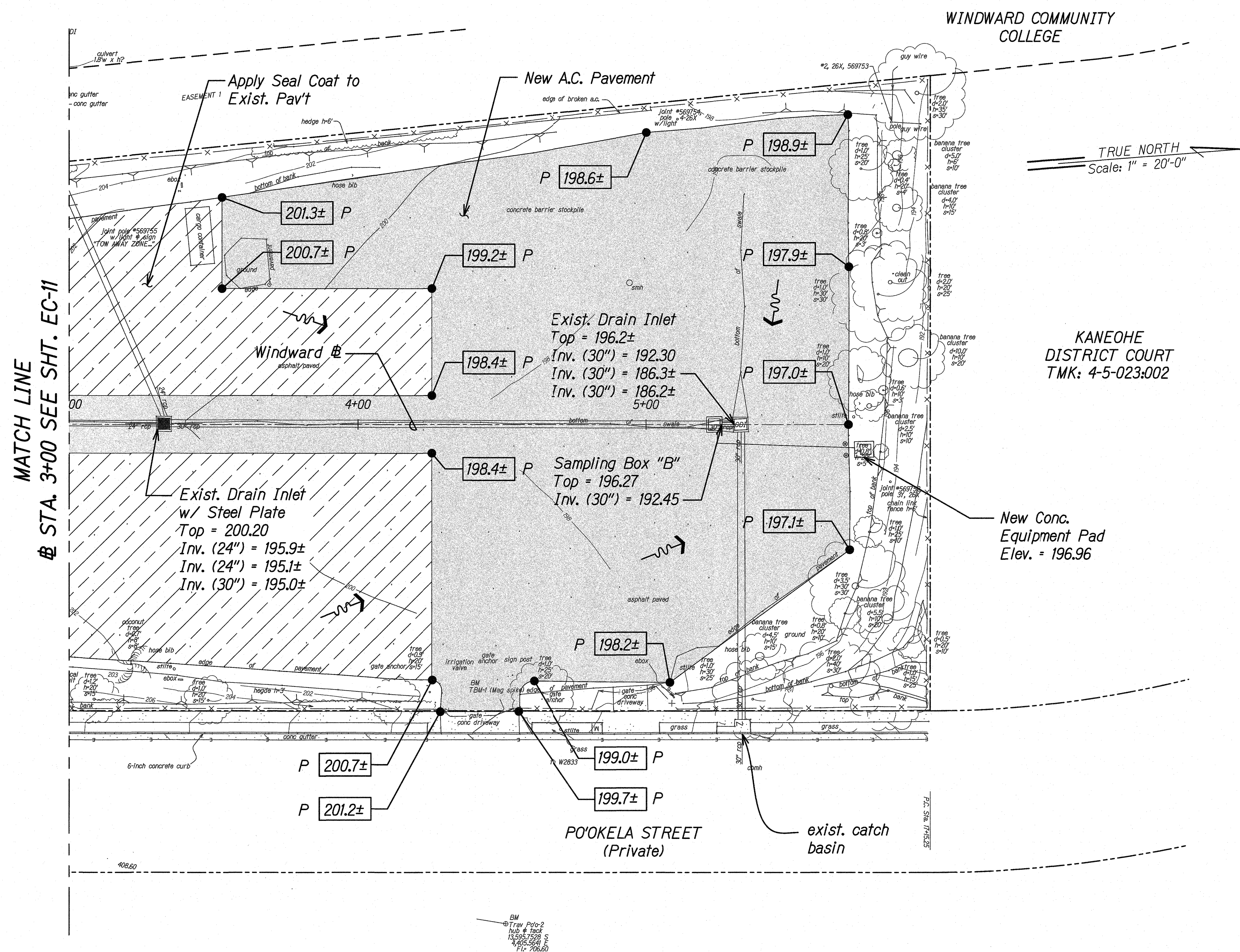
SHEET No. *EC-11* OF *23* SHEETS

|               |                                    |
|---------------|------------------------------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ DATE _____ |
| NOTE BOOK     | DRAWN BY _____ *                   |
|               | TRACED BY _____ *                  |
|               | DESIGNED BY _____ *                |
|               | QUANTITIES BY _____ *              |
|               | CHECKED BY _____ *                 |
|               | No. _____                          |

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| FED. ROAD DIST. NO. | STATE | PROJ. NO.    | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HWY-O-02-18M | 2018        | 22        | 33           |



- LEGEND**
- 1.67 P A.C. Pavement Elevation
  - Limits of Grading
  - Flow Direction

**GRADING PLAN  
WINDWARD BASEYARD**  
Scale: 1" = 20'-0"

|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| DRAWN BY      |                   |      |
| DESIGNED BY   |                   |      |
| NOTE BOOK     |                   |      |
| QUANTITIES BY |                   |      |
| CHECKED BY    |                   |      |
| N.            |                   |      |

WINDWARD - GRADING PLAN 3/20/2018 10:15 AM

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PERMANENT BMP PLAN  
WINDWARD BASEYARD**

STORM WATER BEST MANAGEMENT PRACTICES  
IMPROVEMENTS AT MAINTENANCE BASEYARDS ON OAHU

Project No. HWY-O-02-18M  
Scale: 1" = 20'-0" Date: March 2018

SHEET No. EC-12 OF 23 SHEETS